

ECCO2 meeting on ocean and ice state estimation 23rd, 24th September, 2008

Green Building (Blg 54), 9th floor

Tuesday morning

8.30: Coffee

9am Introduction

John Marshall - Introduction

Lee-Lueng Fu: brief report on the development of the SWOT Mission and the La Jolla Workshop

Review of Greens Function global calculations and associated science
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Dimitris Menemenlis: Greens Function calc overview and report on mean sea surface height (Zlotnicki), Indo-Pacific (Tony Lee) and Arctic (Condrón),

Hong Zhang: Assessment of ECCO2 High-Resolution Global-Ocean and Sea-Ice Data Synthesis

An Nguyen: Assessment of ECCO2 optimized solution in the Arctic.

Michael Schodlok: Ice shelves and Southern Ocean circulation

10.45 - 11.15: Coffee Break

Denis Volkov: ECCO2 Meridional Heat Transports in the Ocean

Holger Brix: Sea surface temperature and heat budget variability in ECCO2

Manfredi Manizza: Arctic tracers

Mick Follows: Ecosystem modeling with ECCO2

Guillaume Maze: Air sea fluxes in ECCO

Xujing Jia Davis: North Pacific Subtropical Mode Water

1.00 - 2.00: Lunch

Tuesday afternoon

2.00pm start:

Technology discussions
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Jean Michel Campin: MITgcm model development - overview

Alistair Adcroft: Remapping algorithms

Oliver Jahn: algorithms in support of biogeochemical tracers

An Nguyen: Parameterization of brine rejection

Ibrahim Hoteit: Ensemble filtering in the MITgcm with DART

3.15 - 3.30: Coffee break

Dimitris Menemenlis: MPM Sea Ice

Jean Utke: OpenAD

Laure Zanna: Optimal excitation of the MOC

4.30 Tea and biscuits at the Vizwall in the Stata Center:

Chris Henze et al at the wall: demonstration of wall and GPU (not to be missed).

Evening: Jean-Michel leading foray to local sites and dinner venues.

Wednesday morning

8.30 0- 9.00: Breakfast on 9th floor

Plans for next phase of ECCO2

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John Marshall: overview

(I) Plans for a CS510 adjoint eddying solution

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Gael Forget: Ocean Atlas: fitting models to Argo data

Patrick Heimbach: Southern Ocean adjoint Estimate in the presence of eddies -

Ryan Abernathey: Inferring eddy mixing rates from tracer stirring

Patrick Heimbach: Adjoints of ice models

(II) High resolution and embedding models

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Inform parameterization and error estimates

Chris Hill: Grids

III Coupling of models

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Atmosphere/Biogeo/ice

Discussion on progress, plans, future collaborations

1.00pm finish